BR No :
Date :

1st Ra Bill

Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

SBR No :
Date :

No.
Date:

**Division:** Electrical (DASARAHALLY) Sub- Division:

**Bill Received No**.....Dated.....Cash Book Voucher No.....dated.....

**Scheduled Docket Name of Work (as per sanctioned estimate);** -Providing and fixing LED street lights and control switche etc.., in Kamagondanahalli surrounding area ward no 12 shettyhalli

**Contractor and Full Address:**M/s The Technical Maneger-2 (BBMP)KRIDL

**Work Order No:** : EE/(Elec)/Das/WO/000023/2017-18 Dated : 27-02-2018

Reference to Agreement Date .....

Job No:- 012-18-000046

Certified that the measurements were taken by me on 24/3/18 and recorded of pages 512639 to 644 of Measurement Book No 5127/17 and that the work is satisfactorily executed.

Contractor

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

K.N.Baddi
JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

Officer in charge of work

Certified that the measurements were taken by me on 24/3/18 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in columns 3 of Account II have been actually brought to Site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in the connection with item for finished work have been agreed upon. And normal agreement signed and executed by the contractor is recorded in the office.

ASSISTANT EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

Sub-division Officer

II Memorandum of Payment

| | |
|---|---|
| Total value of work done or supplies as per account within | Billamt 245909 = |
| Deduct amount to be held in reserve being .....percent Rs..... | |
| " Balance | |
| Deduct payment : | |
| Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No..... | IT 49120 = |
| Amount adjusted towards cash advance recovery of | LWC 24559 = |
| Payments cost store or other material supplied. | CBF 2455 = |
| Now made recovery amount creditable to this/ other work | FSD 122795 = |
| Amount paid on this bill cheque/cash | TD 198929 = |
| Balance being unpaid value of work done held in reserve | Net 2256980 = |
| 6) Deduct cash advance made on the Office Cash Book Voucher No..... dated.....less adjustments | |
| 7) Net amount due to or from contractor | |
| **Unadjusted items** | |
| 8) Advance to contractor for materials brought to site (as detailed) within | |
| Value of Government materials supplied | |

Contractors Signature

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Received Rs.....(in words)
.....
by cash adjustment of payment as per memorandum.

Witnesses :
1
2

Dated ..... Signature of contractor

Paid by me by cheque No..... Dated .....

Cash Rent Rs. 198929/- Dated .....

Initials of Officer making payment

(For use in the office)

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Executive Engineer (Ele)

B.B.M.P. Dasarahalli Division

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| Sl. No. | Description of item | Unit |
|---|---|---|
| | **Name of Work**:-Providing and fixing LED street lights and control switche etc.., in Kamagondanahalli surrounding area ward no 12 shettyhalli | |
| 1 | LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.90 Watts | Nos |
| 2 | LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.LED Streetlight 65watts | Nos |
| 3 | Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. ( Icu = Ics) THREE POLE 100Amps 25kA. | Nos |
| 4 | Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.200mmx200mmx98mm | Nos |
| 5 | Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires. | Nos |
| 6 | Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.3.5 core 25 sqmm | Mtrs |
| 7 | Supplying and Fixing of:.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wiresUsing 32mm dia G.I.pipe. | Nos |
| 8 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct 25 sqmm to 75 sqmm | Per Mtr |
| 9 | Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.25 sqmm Long Barrel | Nos |
| 10 | Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm | Mtrs |
| | **Total Rs** | |
| | Add KRIDL Charges 11% | |
| | **GRAND TOTAL** | |

Certificate

The above said monthly maintenance work has been carrying satisfactorily

T.A. Bandi
12.24

AEE

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Date

| Previous Measurement | | Present Measurement | | | Total Upto Date | | Remarks |
|---|---|---|---|---|---|---|---|
| Qty. | Cost | Qty. | Rate Rs. P. | Amount | Qty | Cost | |
| | | | | | | | |
| | | 30 | 31250.00 | 937500.00 | 30 | 937500 | |
| | | 60 | 18720.00 | 1123200.00 | 60 | 1123200 | |
| | | 4 | 4044.00 | 16176.00 | 4 | 16176 | |
| | | 4 | 2178.00 | 8712.00 | 4 | 8712 | |
| | | | 176.00 | 0.00 | 0 | 0 | |
| | | 84 | 165.00 | 13860.00 | 84 | 13860 | |
| | | 120 | 893.00 | 107160.00 | 120 | 107160 | |
| | | 84 | 16.20 | 1360.80 | 84 | 1361 | |
| | | 30 | 20.59 | 617.70 | 30 | 618 | |
| | | 15 | 263.00 | 3945.00 | 15 | 3945 | |
| | | | | 2212531.50 | | 2212531.50 | |
| | | | | 243378.47 | | 243378.47 | |
| | | | | 2455909.97 | | 2455909.97 | |

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